

Please amend the claims by substituting the following claims for the corresponding previously pending claims of the same number(s):

*but clb*) 1. An isolated nucleic acid comprising a polynucleotide that hybridizes under stringent conditions to a SEQ ID NO:1, base pairs 57583-58854, wherein said polynucleotide encodes a protein that has an oxidase activity.

*B8* 2. The isolated nucleic acid of claim 1, wherein said nucleic acid comprises a nucleic acid encoding at least one additional open reading frame that encodes a polypeptide selected from the group consisting of SEQ ID NO:114, SEQ ID NO:113, SEQ ID NO:112, SEQ ID NO:111, SEQ ID NO:110, SEQ ID NO:109, SEQ ID NO:108, SEQ ID NO:107, SEQ ID NO:106, SEQ ID NO:105, SEQ ID NO:104, SEQ ID NO:103, SEQ ID NO:102, SEQ ID NO:101, SEQ ID NO:100, SEQ ID NO:99, SEQ ID NO:98, SEQ ID NO:97, SEQ ID NO:96, SEQ ID NO:95, SEQ ID NO:94, SEQ ID NO:93, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, and SEQ ID NO:126.

3. The isolated nucleic acid of claim 1, wherein said nucleic acid comprises a nucleic acid encoding at least two additional open reading frames encoding polypeptides independently selected from the group consisting of SEQ ID NO:114, SEQ ID NO:113, SEQ ID NO:112, SEQ ID NO:111, SEQ ID NO:110, SEQ ID NO:109, SEQ ID NO:108, SEQ ID NO:107, SEQ ID NO:106, SEQ ID NO:105, SEQ ID NO:104, SEQ ID NO:103, SEQ ID NO:102, SEQ ID NO:101, SEQ ID NO:100, SEQ ID NO:99, SEQ ID NO:98, SEQ ID NO:97, SEQ ID NO:96, SEQ ID NO:95, SEQ ID NO:94, SEQ ID NO:93, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, and SEQ ID NO:126.

*B9* 5. The isolated nucleic acid of claim 1, wherein said sequence of said protein is SEQ ID NO:115. nucleic acid comprises a nucleic acid encoding a protein encoded by a gene selected from the group consisting of blmI, blmII, and blmXI.

9. An isolated nucleic acid comprising a nucleic acid encoding a protein comprising the sequence of SEQ ID NO:115.

*B10* *Sub C7* 10. The nucleic acid of claim 9, wherein said nucleic acid wherein the sequence of said protein is SEQ ID NO:115.

*B11* *Sub C8* 12. The nucleic acid of claim 9, wherein said nucleic acid further comprises a nucleic acid encoding a protein encoded by blmVIII.

13. The nucleic acid of claim 9, wherein said nucleic acid further comprises a nucleic acid selected from the group consisting of blmI, blmII, and blmXI.

*B11* 14. The nucleic acid of claim 9, wherein said nucleic acid further comprises a nucleic acid selected from the group consisting of blmIII, blmIV, blmV, blmVI, blmVII, blmIX, and blmX.

15. The nucleic acid of claim 9, wherein said nucleic acid further comprises blmVIII.

*B12* 17. The nucleic acid of claim 9, wherein said isolated nucleic acid comprises a nucleic acid encoding a module.

*B13* *Sub C9* 21. An isolated gene cluster comprising open reading frames encoding polypeptides sufficient to direct the assembly of a bleomycin or a bleomycin analogue.

*B14* *Sub C10* 40. An expression vector comprising a nucleic acid of any one of claims 1, 2, 3, 5, 9, 10, 12, 13, 14, 15, 17, and 21.

72. The cell of claim 71, wherein said cell overexpresses a resistance gene from the bleomycin gene cluster.

*B15* *Sub C11* 73. The cell of claim 72, wherein said resistance gene is a selected from the group consisting of blmA, and blmB.